

## Tech specs

BASELINE

# BulletCam HL (8 Mp/2.8 mm)

Wired AI-powered security IP camera with a 110° viewing angle, hybrid illumination, True WDR, microphone, and PoE/12 V. For outdoor and indoor use.



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## Camera

### Image sensor

8 MP CMOS, 1/2.7" type



## Lens focal length

2.8 mm

## Maximum aperture

f/1.6

## Lens iris type

fixed

## Lens focal type

fixed

## Field of view

horizontal: 100–110°

vertical: 50–60°

diagonal: 125–135°

## DORI distance

- Detection: 90 m
- Observation: 36 m
- Recognition: 18 m
- Identification: 9 m

## Maximum illumination distance

- white LED: up to 50 m
- IR LED: up to 50 m

Intelligent lighting control automatically adjusts the intensity of IR and white LEDs in real time to prevent overexposure. This ensures clear visibility of objects at varying distances – whether close to or far from the camera – in low-light conditions.

## Minimum illumination

color: 0.005 lx

B/W: 0 lx

## Signal-to-noise ratio (SNR)

more than 52 dB

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## Video

### Resolution

- 8 MP (3840 × 2160)
- 6 MP (3072 × 1728)
- 5 MP (2592 × 1944)
- 5 MP (2944 × 1656)
- 5 MP (2880 × 1620)
- 4 MP (2560 × 1440)
- 3 MP (2304 × 1296)
- 2 MP (1920 × 1080)
- 0.6 MP (1024 × 576)

## Frame rate

up to 20 fps

## Image rotation

0°, 180°

## Video codec

H.265, H.264

## Dynamic range

120 dB (True WDR)

## Storage

microSD

### Ajax NVR

The camera supports microSD up to 256 GB. The memory card should be Class V30 or faster. The card is not included in the complete set.

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## Audio

### Built-in microphone

With the corresponding settings, the camera can record audio at the scene.

## Audio codec

G711-ULAW, G711-ALAW, G726, G722

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## Intelligent video analytics

### Motion detection

The camera detects motion using software image frame analysis.

### AI object detection

People

Pets

Vehicles

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## Network

### Port

1 × RJ-45 self-adaptive Ethernet (10/100 Mbps)

### Protocol

HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, DHCP, DNS

## Interoperability

## ONVIF (Profile S/T\*)

Ajax cameras and NVRs can be integrated into third-party video management systems (VMS).

\* Profile T is supported for basic streaming and configuration. Advanced features such as metadata, event handling, or edge recording may not be available.

[Learn more](#) >

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## Key features

## Video protocol

### JetSparrow

Fast and encrypted peer-to-peer video protocol developed by Ajax Systems.

## Visual verification of Ajax alarms

The system allows you to configure a scenario according to which Ajax detectors trigger selected cameras to start recording. The recorded event is immediately delivered to the mobile or desktop monitoring app.

## Privacy

Advanced privacy controls ensure a high level of personal data protection. All access rights – including those for mobile app users, installers, and monitoring company operators via Ajax PRO Desktop – are fully configurable by the device owner. This guarantees that only authorized parties can access video streams, event history, or device settings, in accordance with the owner's preferences.

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## Sabotage protection

### mTLS

Encrypted connection for data protection.

### Authentication

via Ajax Cloud

### Secure Boot

Protection against firmware spoofing.

## OTA signature verification

Secure automatic firmware update.

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## Power supply

### PoE standard

802.3at/af

### PoE power consumption

- maximum: up to 8.1 W
- average: up to 7.0 W

### Power supply unit

12 V $\overline{=}$   $\pm$  20%, 1 A

### 12 V DC power consumption

- maximum: up to 7.0 W
  - average: up to 6.0 W
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## Enclosure

## Dimensions

198 × 76 × 76 mm

## Weight

550 g

## Operating temperature range

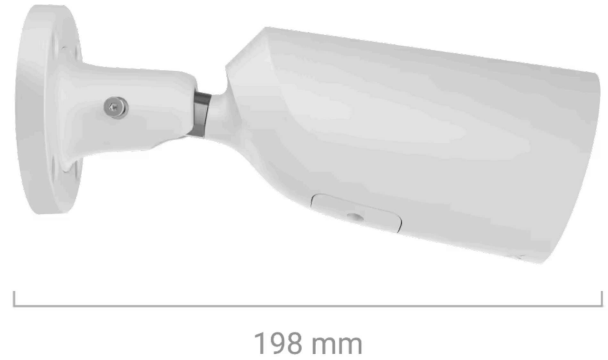
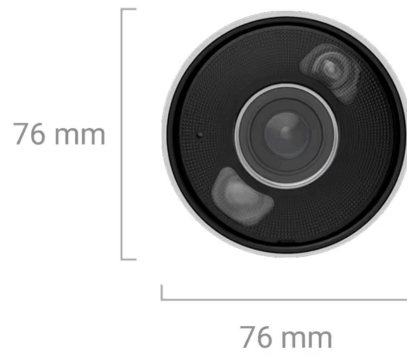
from -30 °C to +60 °C

## Operating humidity

up to 90%

## Protection class

IP65, IK08



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## Color

Black

White



## Complete set

BulletCam HL (8 Mp/2.8 mm)

Installation template

Installation kit

Quick start guide

## Certification and compliance with standards

 **BulletCam HL (8 Mp/2.8 mm)**



## Additional information

**Compliance with standards**

**User manual**

[Learn more >](#)

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## Warranty

24 months

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Rating 4.8

4,500,000

people worldwide under Ajax protection

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[Products](#)

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- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios



## Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks
- Upgrades and retrofits
- Why Ajax
- How it works

## Support

- Manuals and articles
- Compliance with standards

## Tools

- Ajax device compatibility
- CMS software compatibility
- Ajax Services availability
- Video storage calculator
- Video device calculator
- Battery life calculator
- Radio communication range calculator
- Switches and outlets configurator
- Fibra power supply calculator
- All web tools

## Monitoring solutions and integrations

- Intrusion alarm monitoring
- Video monitoring and visual alarm verification
- Audio alarm verification

## Company

- Blog

## For partners

- For partners

 **BulletCam HL**

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